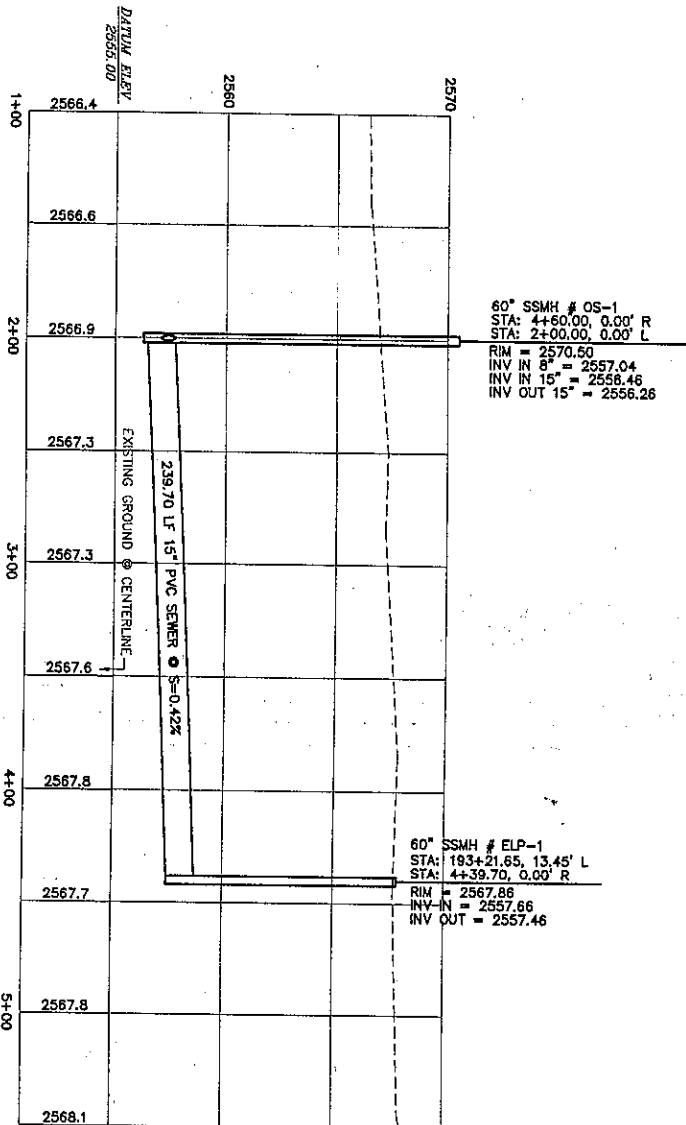


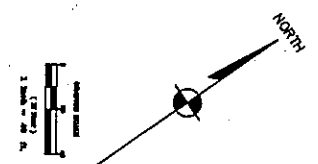
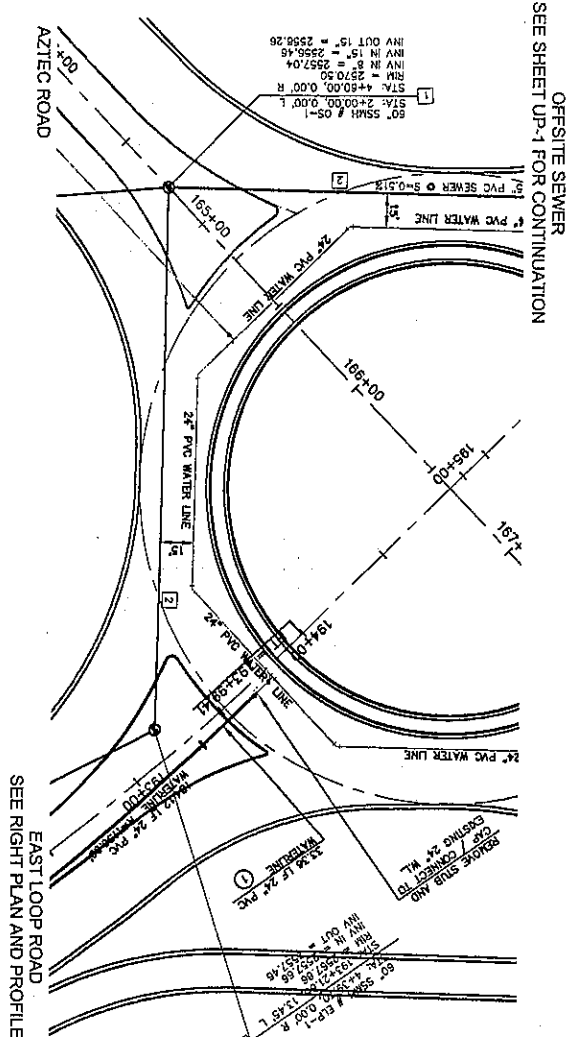
DISCLAIMER NOTE
UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PROTECTING ALL UTILITIES NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF ALL UTILITIES.

Utility located underground. Verify location, depth, and type before construction.
Call before you dig.
1-800-4-A-DAWG
1-800-473-3581

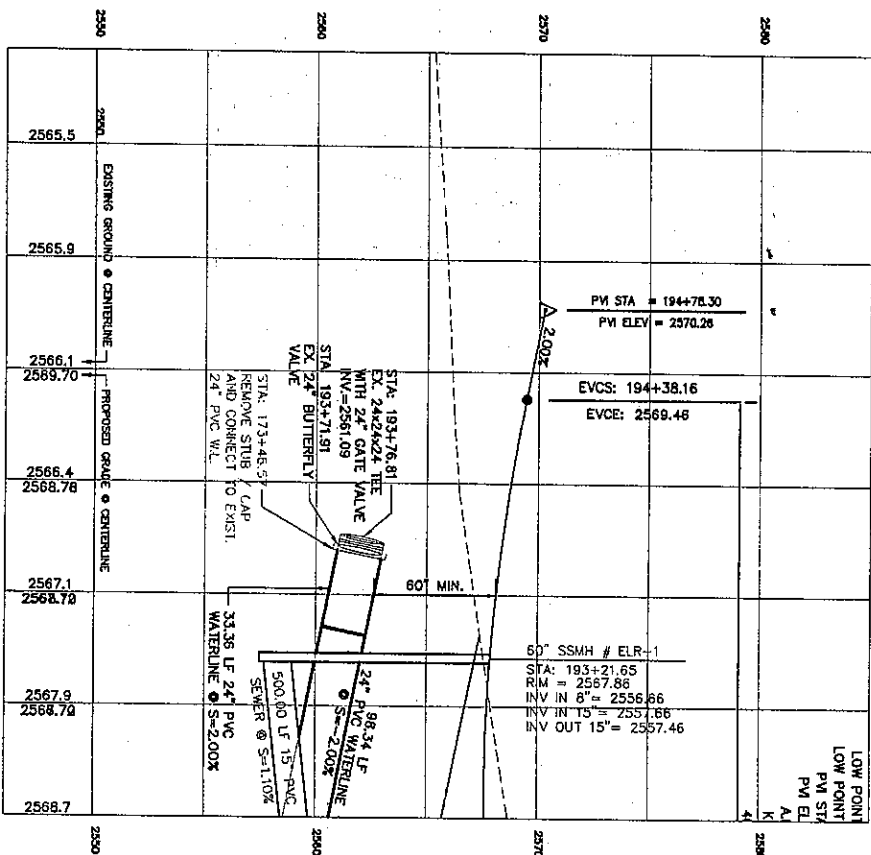
OFFSITE SEWER - PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'



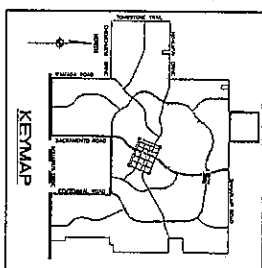
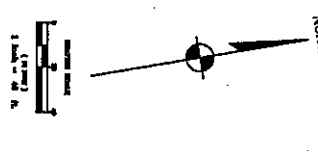
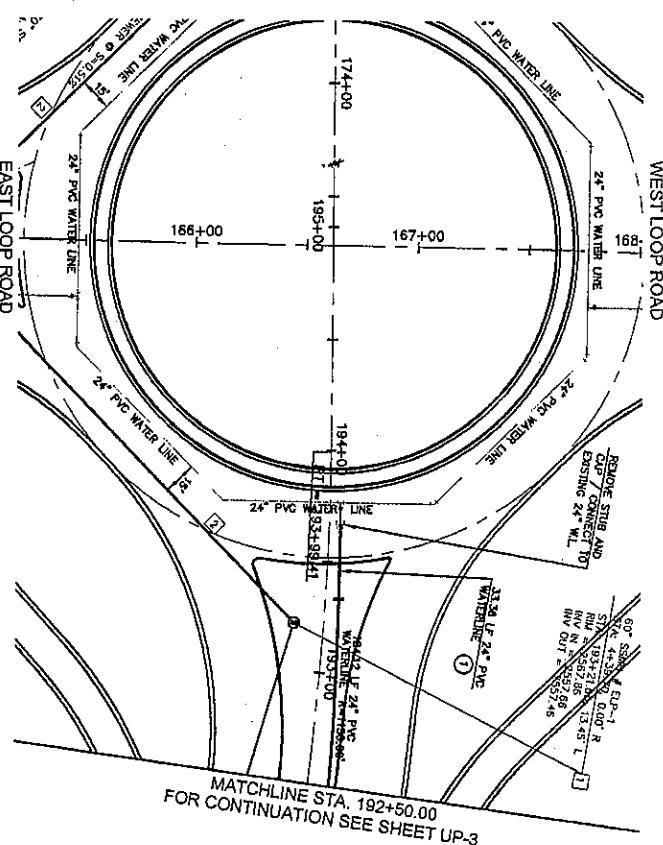
OFFSITE SEWER - PLAN
SCALE: HORIZ 1"=40'



EAST LOOP ROAD - PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'



EAST LOOP ROAD - PLAN
SCALE: HORIZ 1"=40'



- WATER CONSTRUCTION NOTES**
1. INSTALL 24" CPVC WATER LINE
 2. INSTALL 24" BUTTERFLY VALVE
 3. INSTALL 24" X 24" X 24" TEE
 4. INSTALL 24" X 24" X 8" TEE
 5. INSTALL 24" X 24" X 8" TEE
 6. INSTALL 24" X 24" X 8" CROSS
 7. INSTALL 24" CAP WITH BLOW-OFF PER M.A.C. STD. DTL. NO. 390
 8. INSTALL 24" 45° BEND
 9. INSTALL 24" CPVC WATER LINE

- EAST LOOP ROAD - PROFILE**
1. INSTALL 6" GATE VALVE
 2. INSTALL 6" CAP WITH BLOW-OFF PER M.A.C. STD. DTL. NO. 390
 3. INSTALL 6" 22.5° BEND
 4. INSTALL 6" CPVC WATER LINE
 5. INSTALL 6" GATE VALVE
 6. INSTALL 6" CAP WITH BLOW-OFF PER M.A.C. STD. DTL. NO. 390
 7. INSTALL 6" HYDRAULIC ASSEMBLY PER M.A.C. STD. DTL. NO. 390
 8. INSTALL 6" 45° BEND
 9. INSTALL 6" CPVC WATER LINE
 10. INSTALL (2) 6" PVC IRRIGATION SLEEVES AND (1) 6" IRRIGATION SLEEVE

PRELIMINARY ISSUE FOR REVIEW
NOT FOR CONSTRUCTION 10-18-05

LEGEND

WATER

3/4" WATER METER
W/ 1" COPPER WATER LATERAL
3/4" DUAL WATER METERS
W/ 1" COPPER WATER LATERALS
FIRE HYDRANT ASSEMBLY
TEE W/ VALVE
2" BLOWOFF ASSEMBLY
GATE VALVE OR BUTTERFLY VALVE
11 1/4", 22 1/2", 45", 90° BEND

SEWER

SANITARY SEWER MANHOLE
SANITARY SEWER MAIN
4" PVC SEWER LATERAL
48" STUB AND CAP
SEWER BLACK WATER VALVE

SEWER CONSTRUCTION NOTES

1. INSTALL 48" DUAL WATER METER PER M.A.C. STD. DTL. NO. 390
2. INSTALL 12" PVC SEWER MAIN
3. INSTALL 12" STANDING SEED AND 4" W/ 1" COPPER WATER LATERALS
4. INSTALL 12" PVC SEWER STUB & CAP
5. INSTALL 6" PVC SEWER MAIN
6. INSTALL 6" PVC SEWER STUB & CAP

BASE OF BEARINGS

NORTH 0°35'30" EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 02, TOWNSHIP 20 NORTH, RANGE 12 NORTH, MERIDIAN 10 WEST, COUNTY OF MOHAVE, ARIZONA, AS DETERMINED BY THE ARIZONA COSMETIC SURVEY OF 1983 (AZCS-83). WEST ZONE, INTERNATIONAL FOOT (FT), UNIFORM FAST STATIC OBSERVATIONS PROCESSED BY NGS-ONS. M.A.C. 70 35' - LATITUDE 35°02'33.43N, LONGITUDE 114°05'56.00W (NAD 83) HEIGHT 2468.58224M (NAD 83)

BENCHMARK

REMARK: 4' AT 5' M.A.C. STD. DTL. NO. 390
ELEVATION: 2569.46 FT (NAD 83) - 2569.46 FT (NAD 83)
CONVERSION: 2569.46 FT (NAD 83) - 2569.46 FT (NAD 83)

NOTE

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF THE ARIZONA COSMETIC SURVEY OF 1983 (AZCS-83). WEST ZONE, INTERNATIONAL FOOT (FT), UNIFORM FAST STATIC OBSERVATIONS PROCESSED BY NGS-ONS. M.A.C. 70 35' - LATITUDE 35°02'33.43N, LONGITUDE 114°05'56.00W (NAD 83) HEIGHT 2468.58224M (NAD 83)

FINAL FLOOD ZONE

FLOOD ZONE DESIGNATION: FEMA-X
ACTED AT CHAIR DOES NOT BE WITHIN A DESIGNATED SPECIAL 15000 HAZARDOUS AREA.

KEYMAP

STANLEY CONSULTANTS INC.

5820 S. Eastern Avenue, Suite 200
Las Vegas, Nevada 89119
(702) 369-9366 Fax (702) 369-9793
www.stanleygroup.com

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH

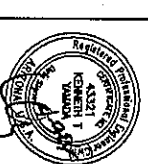
EAST LOOP ROAD SECTION 3 IMPROVEMENTS
UTILITY PLAN AND PROFILE

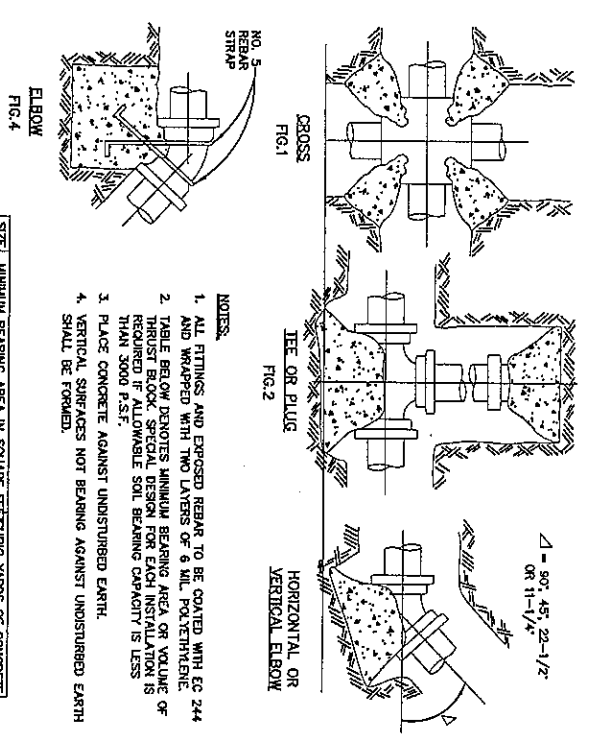
MOHAVE COUNTY ARIZONA

SCALE (H) 1" = 40'
SCALE (V) 1" = 4'
DRAWN BY EMG
CHECKED BY MPB
DATE 8/25/05

SHEET
UP-2
8 OF 16 SHEETS
SA PROJECT
18449.03.02

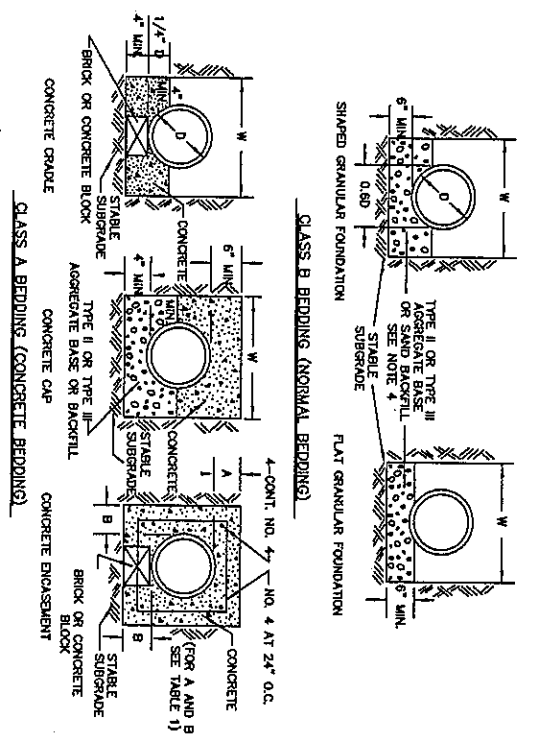
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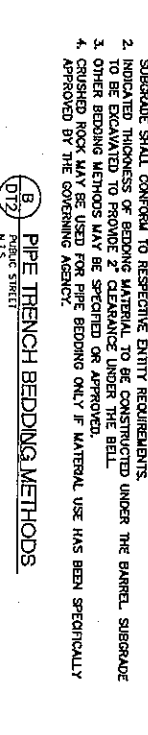
PIPE SIZE	FIG. 1	FIG. 2	FIG. 3	FIG. 4
12"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
18"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
24"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
30"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
36"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
42"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
48"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
54"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
60"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
66"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
72"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
78"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
84"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
90"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
96"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
102"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
108"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
114"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
120"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"

THRUST BLOCK DETAIL

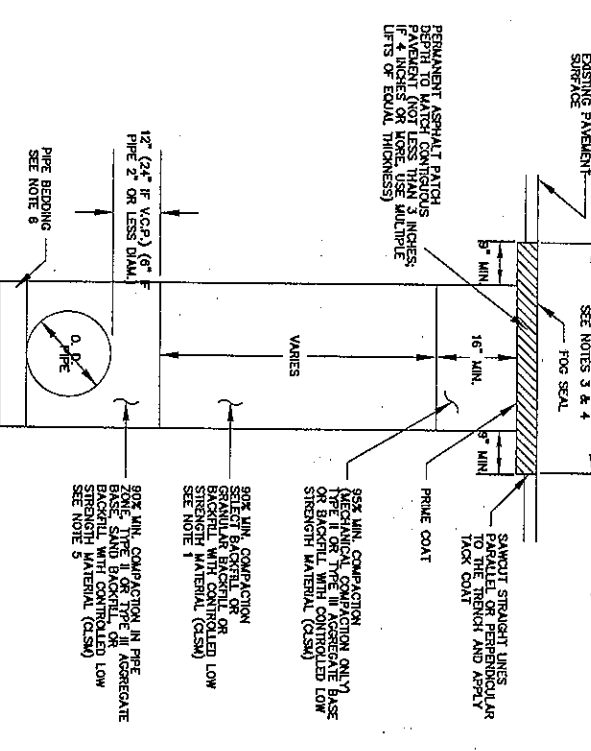


PIPE SIZE	FIG. 1	FIG. 2	FIG. 3	FIG. 4
12"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
18"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
24"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
30"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
36"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
42"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
48"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
54"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
60"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
66"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
72"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
78"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
84"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
90"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
96"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
102"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
108"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
114"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"
120"	22'-1/2"	22'-1/2"	22'-1/2"	22'-1/2"

THRUST BLOCK DETAIL



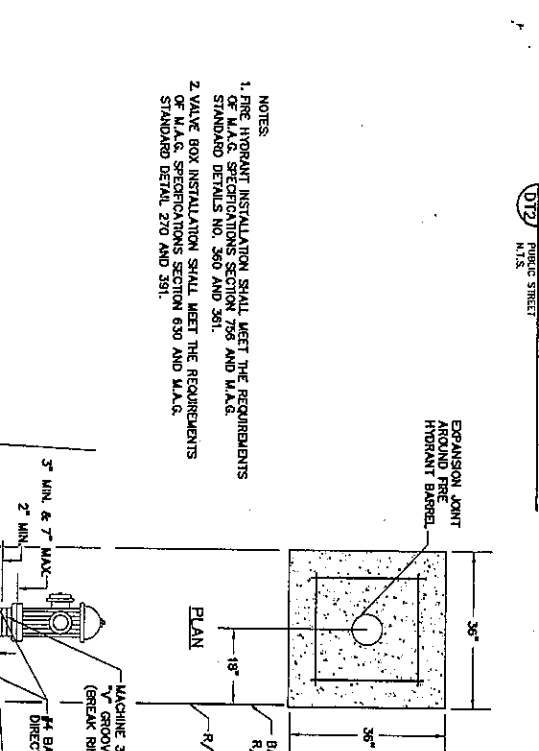
THRUST BLOCK DETAIL



NOTES:

1. ALL FITTINGS AND EXPOSED REBAR TO BE COATED WITH EC 244 AND WRAPPED WITH TWO LAYERS OF 6 MIL. POLYETHYLENE.
2. TABLE BELOW SHOWS MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

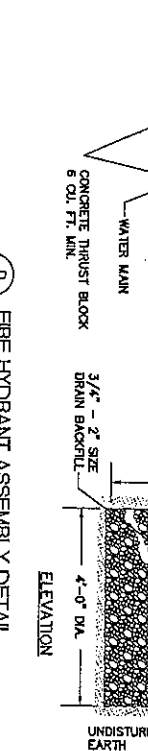
THRUST BLOCK DETAIL



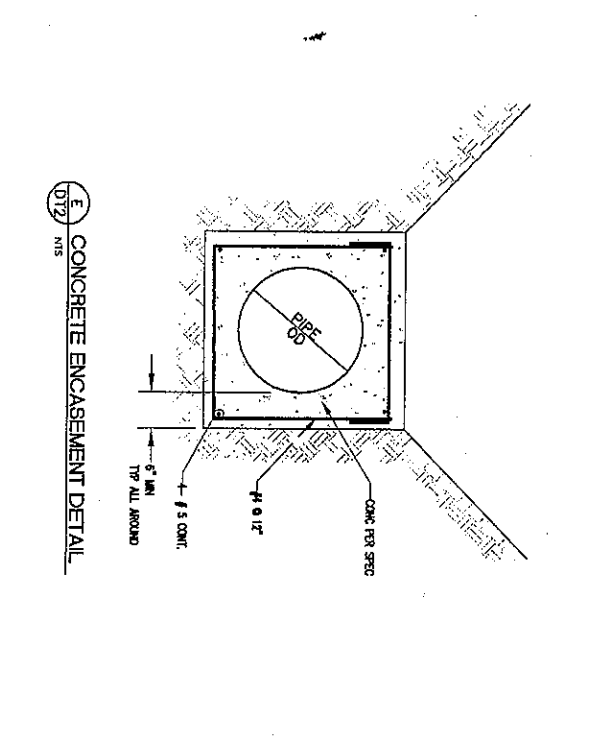
NOTES:

1. FIRE HYDRANT INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 756 AND M.A.G. STANDARD DETAIL NO. 360 AND 361.
2. VALVE BOX INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 630 AND M.A.G. STANDARD DETAIL 270 AND 391.

THRUST BLOCK DETAIL



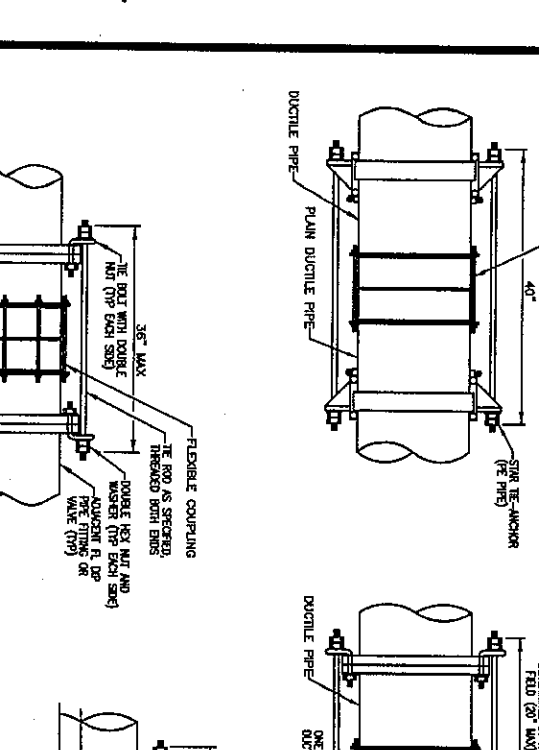
THRUST BLOCK DETAIL



NOTES:

1. ALL FITTINGS AND EXPOSED REBAR TO BE COATED WITH EC 244 AND WRAPPED WITH TWO LAYERS OF 6 MIL. POLYETHYLENE.
2. TABLE BELOW SHOWS MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

THRUST BLOCK DETAIL



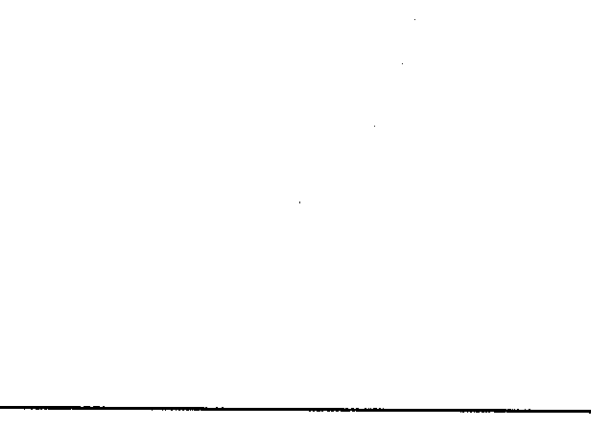
NOTES:

1. FIRE HYDRANT INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 756 AND M.A.G. STANDARD DETAIL NO. 360 AND 361.
2. VALVE BOX INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 630 AND M.A.G. STANDARD DETAIL 270 AND 391.

THRUST BLOCK DETAIL



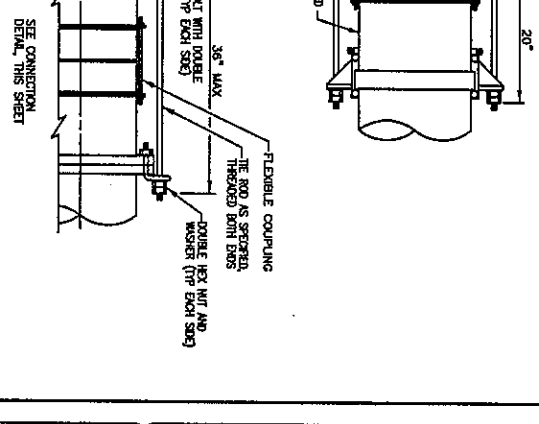
THRUST BLOCK DETAIL



NOTES:

1. ALL FITTINGS AND EXPOSED REBAR TO BE COATED WITH EC 244 AND WRAPPED WITH TWO LAYERS OF 6 MIL. POLYETHYLENE.
2. TABLE BELOW SHOWS MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

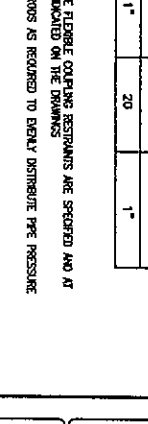
THRUST BLOCK DETAIL



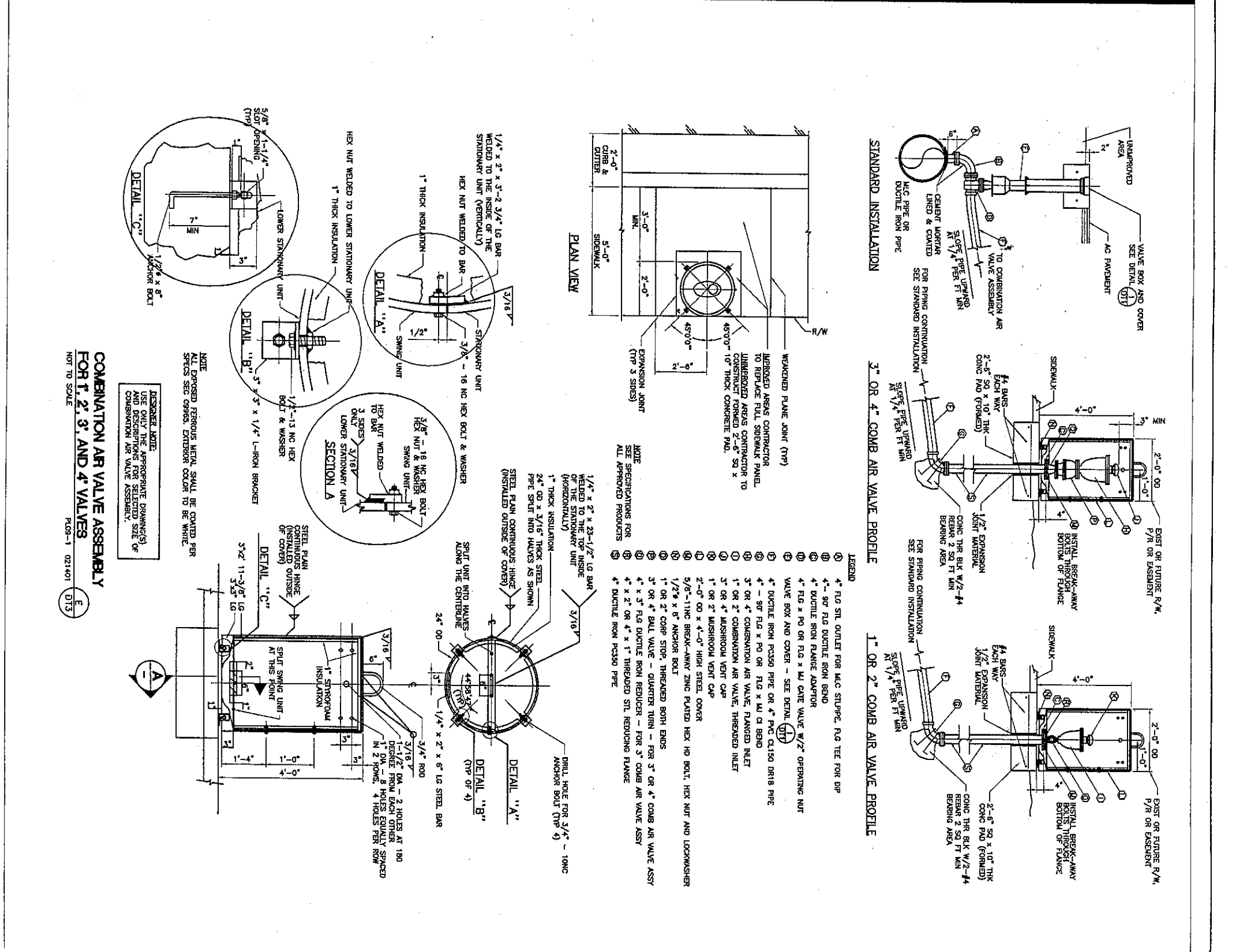
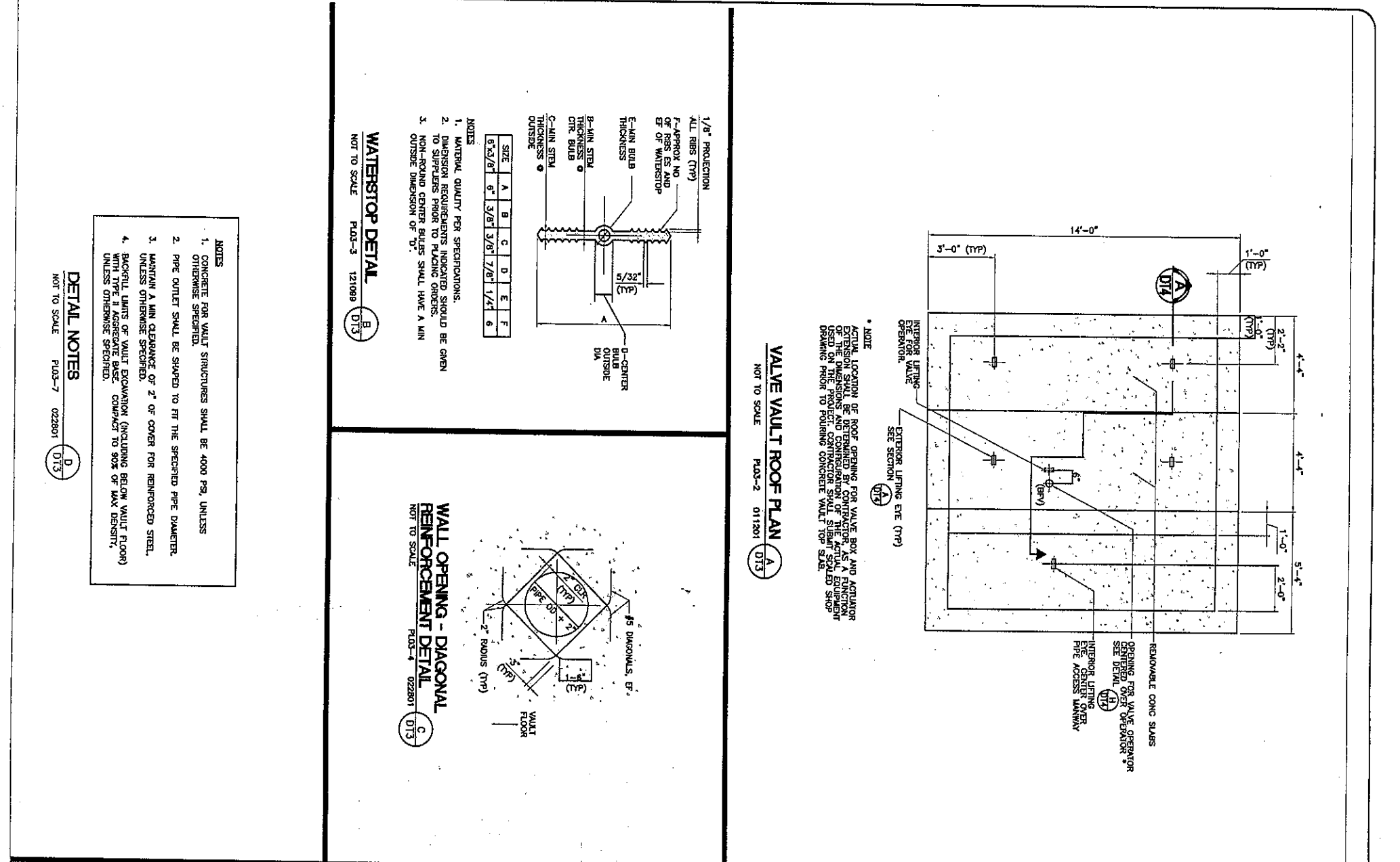
NOTES:

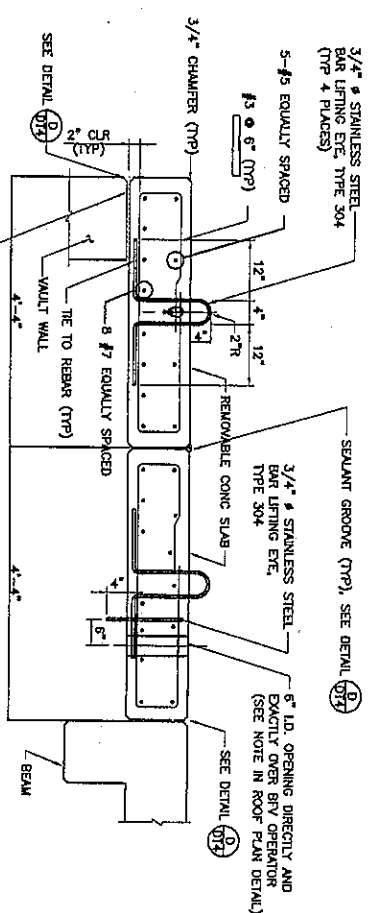
1. FIRE HYDRANT INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 756 AND M.A.G. STANDARD DETAIL NO. 360 AND 361.
2. VALVE BOX INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 630 AND M.A.G. STANDARD DETAIL 270 AND 391.

THRUST BLOCK DETAIL

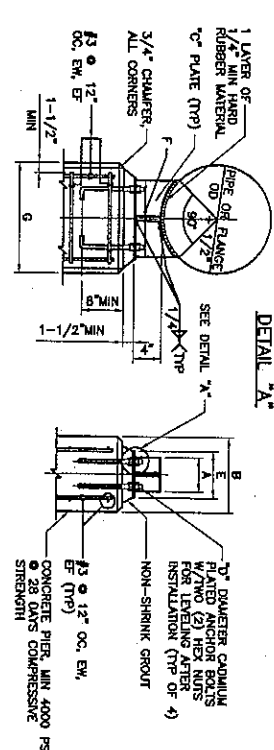


THRUST BLOCK DETAIL





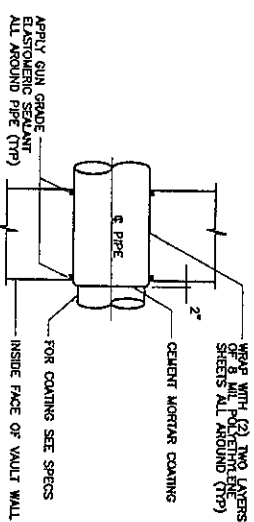
REMOVABLE CONCRETE SLAB SECTION
FIG-3-C 022801
DT4



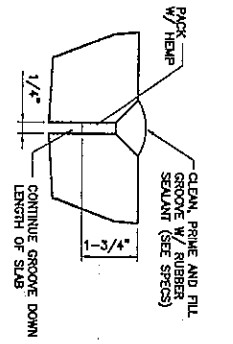
PIPE SUPPORT DETAIL
DT4

NOMINAL PIPE SIZE	PIPE SUPPORT TABLE					SUPPORTING				
	A	B	C	D	E	F	G	H	I	J
12"	4"	12"	3/8"	5/8"	6"	10"	14"	18"	22"	26"
16"	4"	12"	3/8"	5/8"	6"	12"	16"	20"	24"	28"
20"	4"	12"	3/8"	5/8"	6"	14"	18"	22"	26"	30"
24"	4"	12"	3/8"	5/8"	6"	16"	20"	24"	28"	32"
30"	4"	12"	3/8"	5/8"	6"	18"	22"	26"	30"	34"
36"	4"	12"	3/8"	5/8"	6"	20"	24"	28"	32"	36"
42"	4"	12"	3/8"	5/8"	6"	22"	26"	30"	34"	38"
48"	4"	12"	3/8"	5/8"	6"	24"	28"	32"	36"	40"
54"	4"	12"	3/8"	5/8"	6"	26"	30"	34"	38"	42"
60"	4"	12"	3/8"	5/8"	6"	28"	32"	36"	40"	44"
66"	4"	12"	3/8"	5/8"	6"	30"	34"	38"	42"	46"
72"	4"	12"	3/8"	5/8"	6"	32"	36"	40"	44"	48"

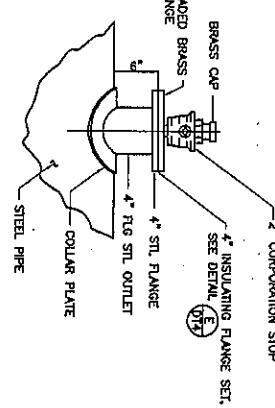
PIPE SUPPORT DETAIL
DT4



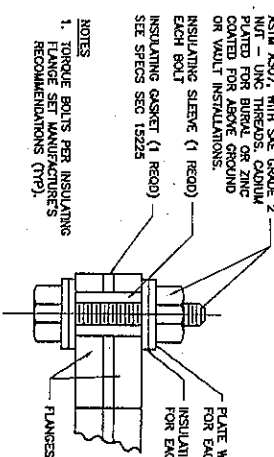
WALL PENETRATION DETAIL
DT4



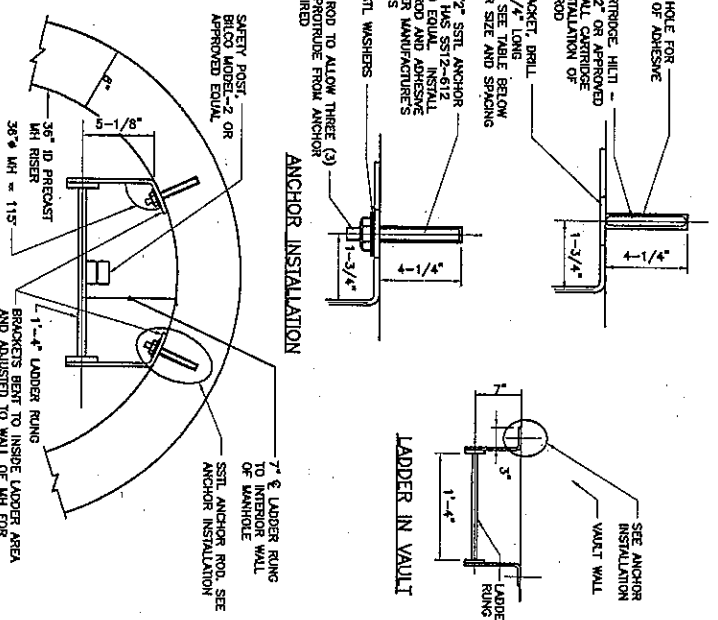
SEALANT GROOVE DETAIL
DT4



CORPORATION STOP DETAIL
FIG-5 022801
DT4



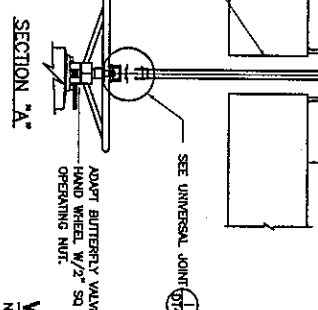
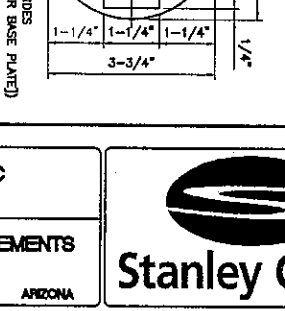
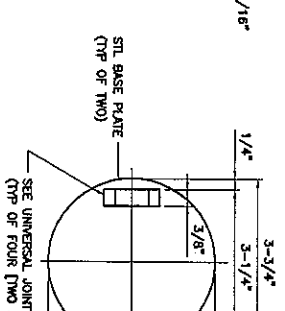
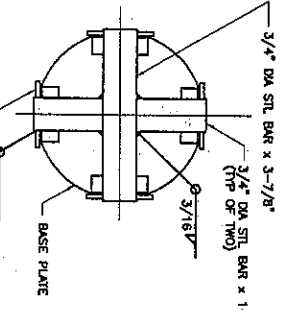
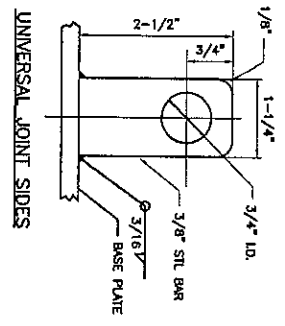
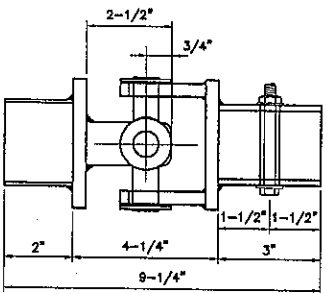
INSULATING FLANGE SET DETAIL
DT4



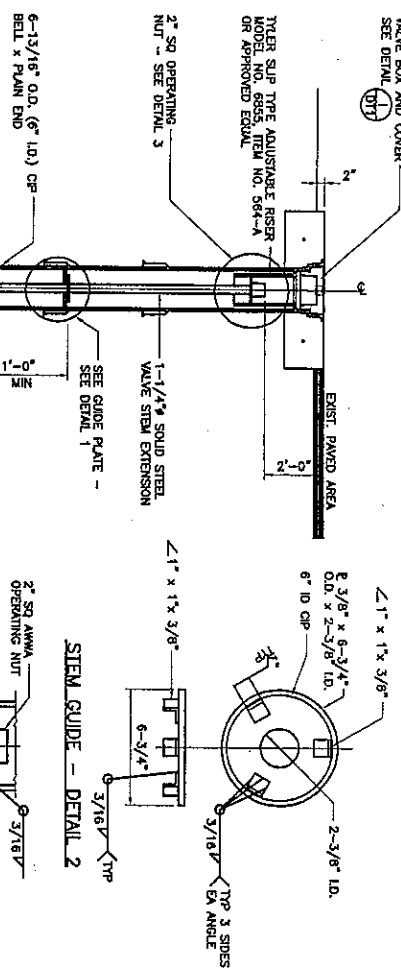
BRACKET SPACING TABLE	
BRACKET SPACING	FLAT BAR SIZE
5'-0" TO 20'-0" OC MAX	5" x 3/8"
OVER 20'-0"	4" x 1/2"

- NOTES
1. LANDING PLATFORM REQUIRED EVERY 20'-0" OF HEIGHT OR FRACTION THEREOF FOR OPEN LADDER. FOR LADDER WITH ONE, PLATFORM SPACING IS 30'-0" MAX (OSHA 1910.27).
 2. APPROVAL OF THE ENGINEER REQUIRED FOR ANY BRACKET SPACING OVER 5'-0" OC (SEE BRACKET SPACING TABLE FOR BAR SIZE).
 3. LADDER SHALL BE MADE OF MILD CARBON STEEL WITH 3/4" SMOOTH BAR RUNGS.
 4. GALVANIZE LADDER ASSEMBLY AFTER WELDING.

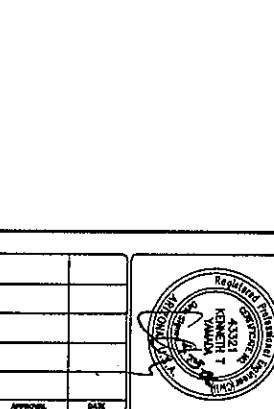
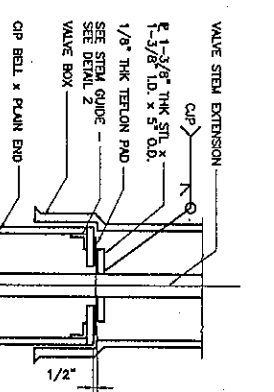
LADDER INSTALLATION DETAILS
FIG-8 022801
DT4

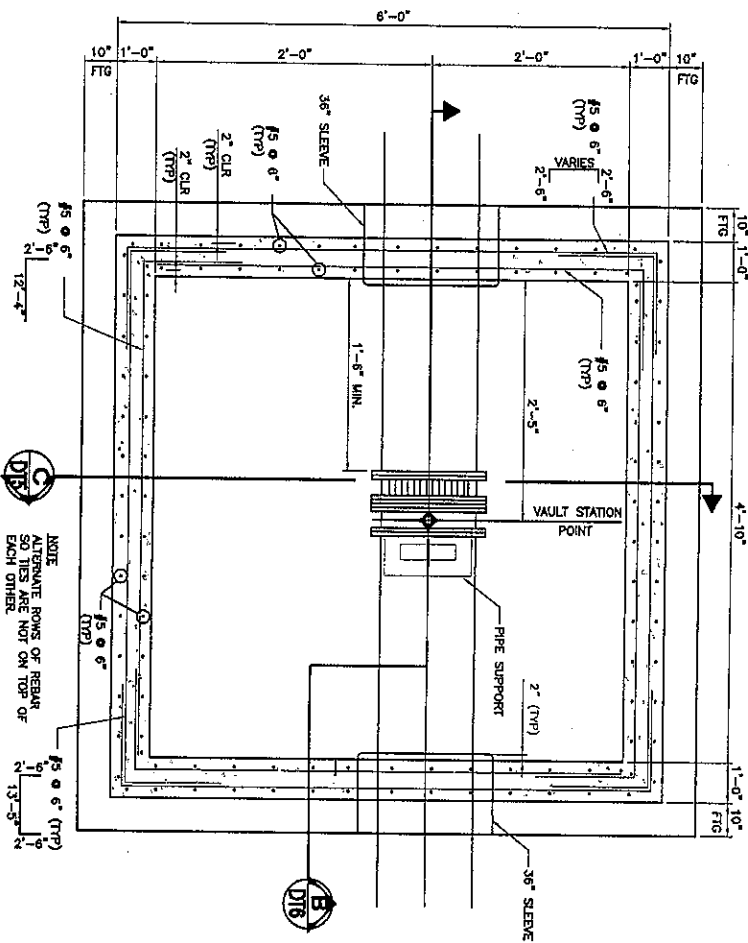


VALVE BOX ON VAULT DETAIL
FIG-7 022801
DT4



GUIDE PLATE - DETAIL 1

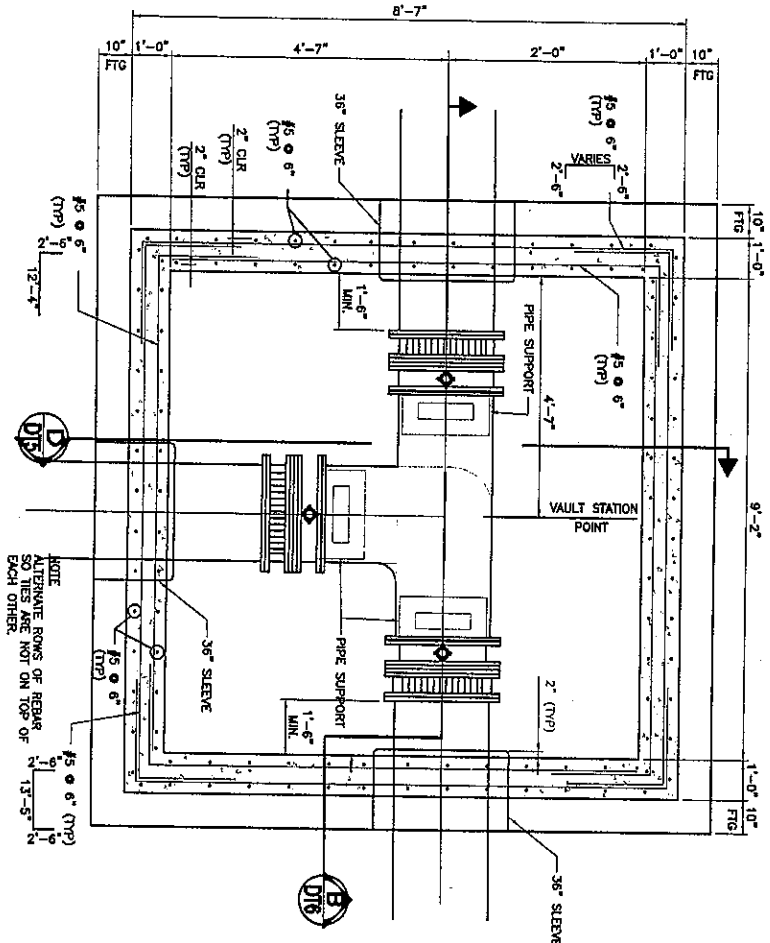




VALVE VAULT SECTIONAL PLAN
WITH (1) VALVE AND NO TEE

NOT TO SCALE

A
DT5

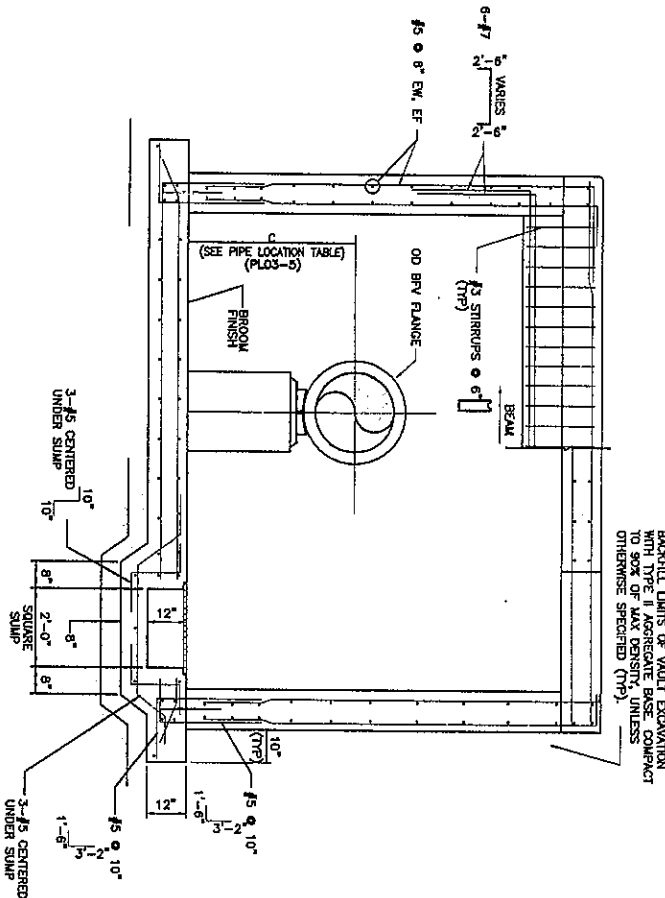


VALVE VAULT SECTIONAL PLAN
WITH (3) VALVE AND TEE

NOT TO SCALE

B
DT5

DESIGNER NOTES:
1. EACH VAULT SHOWN ON THE PRELIMINARY PLAN SHALL BE DETAIL WITH A STRUCTURAL PLAN, A MECHANICAL PIPING PLAN AND ALL OTHER REQUIRED SECTIONS AND DETAILS. THE VAULT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VAULT STATIONING POINT, THE VAULT ORIENTATION TO NORTH, THE LOCATION AND PLAN ORIENTATION OF ALL OF THE VAULT ACCESS COVERS AND THE MANHOLE ACCESS COVER.
2. EACH VAULT PLAN, SECTIONS AND DETAILS SHALL BE PROVIDED WITH DIMENSIONS AS REFERENCED BY THE ASSOCIATED DIMENSION TABLE TO PLUS-5 AND THE TYPE LOCATION TABLE PLUS-5 IN THESE STANDARD DETAILS.
(DESIGNER NOTES TO BE DELETED FROM DRAWING)

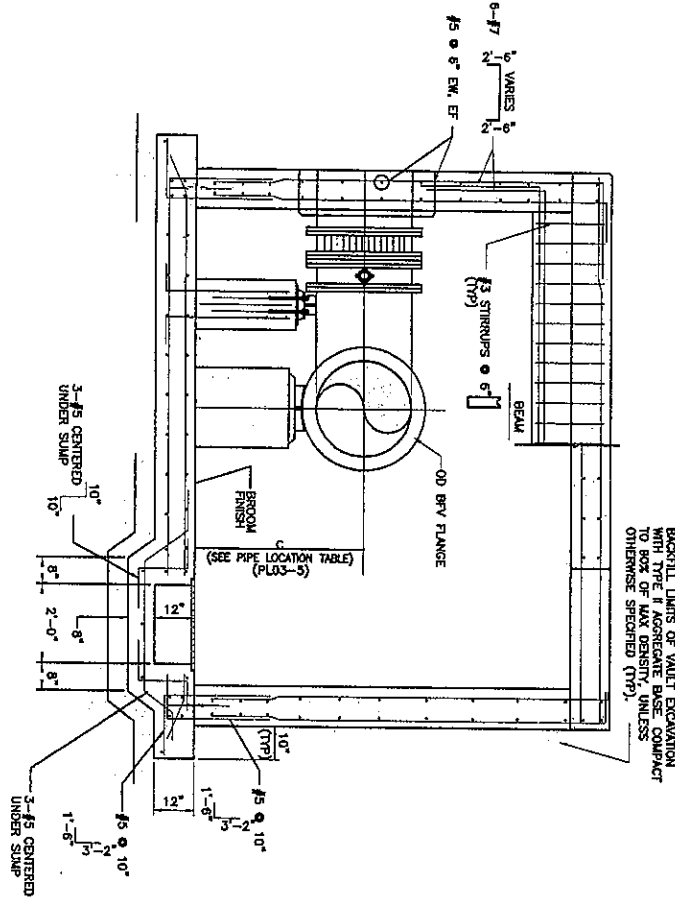


VALVE VAULT SECTION
WITH (1) VALVE AND NO TEE

NOT TO SCALE

C
DT5

DESIGNER NOTES:
1. EACH VAULT SHOWN ON THE PRELIMINARY PLAN SHALL BE DETAIL WITH A STRUCTURAL PLAN, A MECHANICAL PIPING PLAN AND ALL OTHER REQUIRED SECTIONS AND DETAILS. THE VAULT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VAULT STATIONING POINT, THE VAULT ORIENTATION TO NORTH, THE LOCATION AND PLAN ORIENTATION OF ALL OF THE VAULT ACCESS COVERS AND THE MANHOLE ACCESS COVER.
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(DESIGNER NOTES TO BE DELETED FROM DRAWING)



VALVE VAULT SECTION
WITH (3) VALVE AND TEE

NOT TO SCALE

D
DT5

BACKFILL LIMITS OF VAULT EXCAVATION WITH TYPE II AGGREGATE BASE COMPACT TO 5% OF MAX DENSITY, UNLESS OTHERWISE SPECIFIED (TYP).

BACKFILL LIMITS OF VAULT EXCAVATION WITH TYPE II AGGREGATE BASE COMPACT TO 5% OF MAX DENSITY, UNLESS OTHERWISE SPECIFIED (TYP).

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RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
EAST LOOP ROAD SECTION 3 IMPROVEMENTS
DETAIL SHEET
MOHAVE COUNTY ARIZONA

SCALE (H) N.T.S.
SCALE (V) N.T.S.
DRAWN BY EMG
CHECKED BY MPB
DATE 3/31/06



